## PUBLICATION OF EXAMINED UTILITY MODEL APPLICATION

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Inventor:

Kiyoshi YATA

Applicant:

Kiyoshi YATA

[Title] A humidifier for vehicles

[A book with brief interpretation of drawings and figures]

A longitudinal sectional view of a humidifier figure 1 for the case vehicles, a perspective diagram of the installation region that figure 2 invites the piece of cloth, figure 3 is a perspective diagram of the case product, and a side elevation of the state that figure 4 did a device of the case product on a vehicle

[Explanation of utility model]

The case establishes moisture outlet aperture 2 on a cover of container 1, and big water overflows than the moisture outlet aperture, and it gets damp by support rod 4, and an outlet aperture and a constant interval are separated, and prevention board 3 is indicated within a container, with the thing which assumes structure of a humidifier for vehicles that the above mentioned water overflows, and it hangs down, and it should be deposited in the water of containers, and piece of cloth 5 is done from prevention board 3, and it is subject matter, this is divided into two as a barrel with a container in illustration up and down, it is engaged threadedly by screw part 6 releasably, a top and the above mentioned water of a cover overflow, and water having appropriate moisture via hole 7 overflows between prevention boards, and it is controlled, and wall 8 is formed, the container which it was covered, and grew was able to be indicated for stability by stability frame 9.

In addition, as for 10, as for installation screw of instructions rod 4, 11, water overflows out of a figure, and, as for installation screw of prevention board 3, 12, water overflows, and pinching piece of a fixed piece of cloth, 13 are installation screws of a piece of cloth to prevention board 3.

In addition, container 1 assumes synthetic resin or tin plates option, piece of cloth 5 uses hydrophilic strong gauze, wire of bold line is used for a stability frame.

As a result of an only weak point forces the heating air which never includes moisture in a vehicle about a vehicle luck hand of the winter season conventionally, and circulating, the humidity becomes extremely thin, in that heat conduction can prick the source of heat of a car having heating facilities with residual heat of an engine coolant across a container indirectly in particular, if some doors are opened in the vehicle that drawing was sealed up with impossibility of steam, and fresh air including moisture is not introduced, there is the weak point that the necessary humidity is lost to hold health of a person of driving and a passenger, in addition, equipment in a vehicle produces variation of quality by dry air, too.

The case is the thing which was devised to remove a weak point to work, if the the case product which water was put in is installed in accessory accommodation shelves of a rear seat in a vehicle, water in a container infiltrates a piece of cloth by rolling or a capillary phenomenon in right and left by vibration of a running vehicle enough, and evaporation is promoted, with a thing including what it gets damp, and it pass, and it is supplied an outlet aperture in a vehicle, and can hold the always moderate humidity which water overflowed like an arrow of figure 1 as for the moisture that evaporated, and bored on a cover from the outside of a prevention board, according to the case, to employ a hydrophilic strong piece of cloth of gauze, air and a contact surface with water are wide, Therefore, it makes evaporation of moisture become active, in addition, water is a thing having the effect that can prevent that it overflows, and a vehicle oscillates by a prevention board, and water in a container is out of a container, and it begins to jump. In addition, if water overflows like illustration if necessary, and weight wall 8 is loaded, Water overflows, and prevention can be done better.

In addition, because the instructions rod, the piece of cloth threadedly attached entirely, this is detached, and repair or exchange of a part is enabled easily, too, if boracic acid, liquid medicine of sterilization medicine are mixed with the water in a container if necessary, it is more effective in healthy maintenance to be able to put in a vehicle.

### [Registration scope of claim]

As shown in the drawings, moisture outlet aperture 2 is established on a cover of container 1, and it makes big water overflows than a moisture outlet aperture, and it gets damp by instructions rod 4, and an outlet aperture and a constant interval are separated, and indicate prevention board 3 within a container, structure of a humidifier for the vehicles that the above mentioned water overflows, and it hangs down, and a dipping should be done in the water of containers, and piece of cloth 5 is done from prevention board 3, and it is.

Fig.1

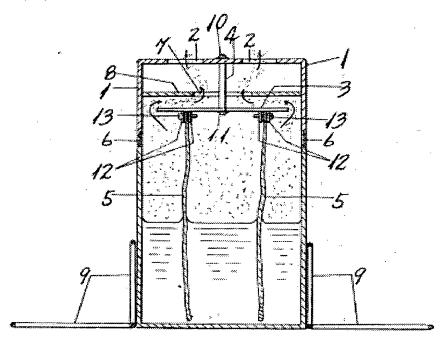
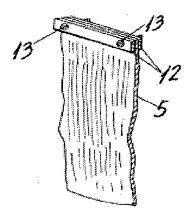
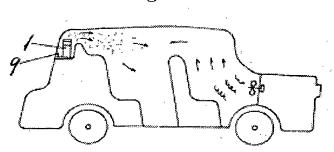


Fig.2

Fig.3







### 特許 庁

80 K 4 (90 F 1)

# 実用新案公報

実用新案出願公告 昭36-27033

公告 昭 36.10.16

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川崎市上丸子天神町370

出願人 考案者 代理人 弁理士

(全2頁)

車 輔 用 給 湿 器

### 図面の略解

第1図は本案車輌用給湿器の縦断面図、第2図は同布片および取付部の斜視図、第3図は本案品の斜視図、第4図は本案品を車輌に装置したる状態の側面図である。

#### 実用新案の説明

本案は、容器 1 の整に湿気出口孔 2 を開設し、かつ該湿気出口孔より大きい溢水防止板 3 を支持杆 4 により湿気出口孔と一定の間隔を隔てて容器中に支持せしめ、前記溢水防止板 3 から布片 5 を垂下して容器中の水に浸漬すべくしてなる車輌の構造を要旨とするもので、図示においては容器を簡形としてこれを上下に二分し螺子の間に適宜の湿気通過孔 7 を有する溢水抑え壁 8 を形成し、かくしてなる容器を安定枠 9 により着脱自在に螺合し、通過孔 7 を有する溢水抑え壁 8 を形成し、かくしてなる容器を安定枠 9 により安定に支持 4 の取付螺子、11 は溢水防止板 3 の取付螺子、12 は 本片の取付螺子である。

なお容器1は合成樹脂またはブリキ板等任意と し、布片5は溶水性の強いガーゼ類を用い、安定 枠には太線の針金等を使用するものである。

従来冬期の車輌運転につきものの欠点は、湿気を全然含まぬ暖房空気を車輌内に強制循環せしめる結果、湿度は極めて稀薄となり、特に暖房設備を有する自動車の熱源は、エンジン冷却水の余熱を間接に容器を隔てて熱伝導させるので、蒸気の引込みは不可能で、密閉された車輌内では、一部の扉を開けて湿度を含んだ外気を導入しなければ運転者、乗客の健康を保持するに必要な湿度が失

われる欠点があり、また車輌内の傭品も乾燥空気 による品質の変異を生ずるものである。

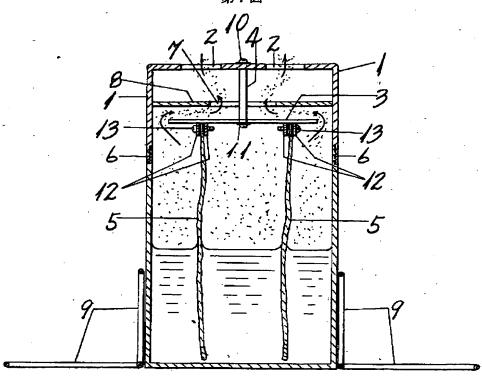
本案はかかる欠点を除去するために考案された もので、水を入れた本案品を車輌内後部座席の小 物収容棚等に設置すれば、運行中の車輌の振動に より容器内の水は左右に揺れあるいは毛細管現象 により布片に充分に滲透して蒸発を促進し、蒸発 した湿気は第1図の矢印のごとく、溢水防止板の 外側より甍に穿設した湿気出口孔を経て車輌内に 供給されて常時適度の湿度を保持せしめ得る特徴 を有するもので、本案によればガーゼ等のごとき 滲水性の強い布片を使用するため、空気と水との 接触面が広く従つて水気の蒸発を活発ならしめ、 また溢水防止板により車輌が振動しても容器内の 水が容器外にはね出すのを防止し得る効果を有す るものである。また必要に応じて図示のごとく溢 水抑え壁8を装着すれば、溢水防止をさらに良好 にすることが出来る。

なお支持杆、布片等は総て螺着したから、これ を取外して修理もしくは部品の交換等も容易にな し得られ、必要に応じて容器内の水中に硼酸、殺 関薬の薬液を混入すれば、車輌内における健康保 持上さらに効果的である。

#### 登録請求の範囲

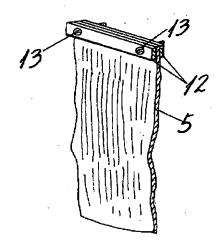
図面に示すように容器1の蓋に湿気出口孔2を 開設し、かつ湿気出口孔より大きい溢水防止板3 を支持杆4により湿気出口孔と一定の間隔を隔て て容器中に支持せしめ、前記溢水防止板3から布 片5を垂下して容器中の水に浸透すべくしてなる 車輌用給湿器の構造。

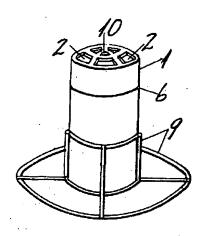




第2図

第3図





第4図

